

## ABSTRACT

[0038] The present invention is directed to an arrangement for generating a variable illumination and irradiation for diagnosis and therapy, particularly for the human eye (1), and to a method for the application thereof. The object to be illuminated can be an artificial object or biological tissue. The arrangement for carrying out the illumination/irradiation of a human eye (1) comprises an illumination unit (2, 3), an optical imaging system (4), an evaluating unit, a central control unit (6) and an output unit (7). The illumination unit (2, 3) generates an illumination which is variable with respect to time and/or space and which is adapted to the diagnostic results. The solution according to the invention is provided chiefly for post-operative fine adjustment of the refractive power of photosensitive plastics already implanted in the eye (1). The latter can be optical lenses as well as other optical elements which are placed in a specific manner in the cornea. However, application of the invention for achieving dermatological effects is also conceivable.